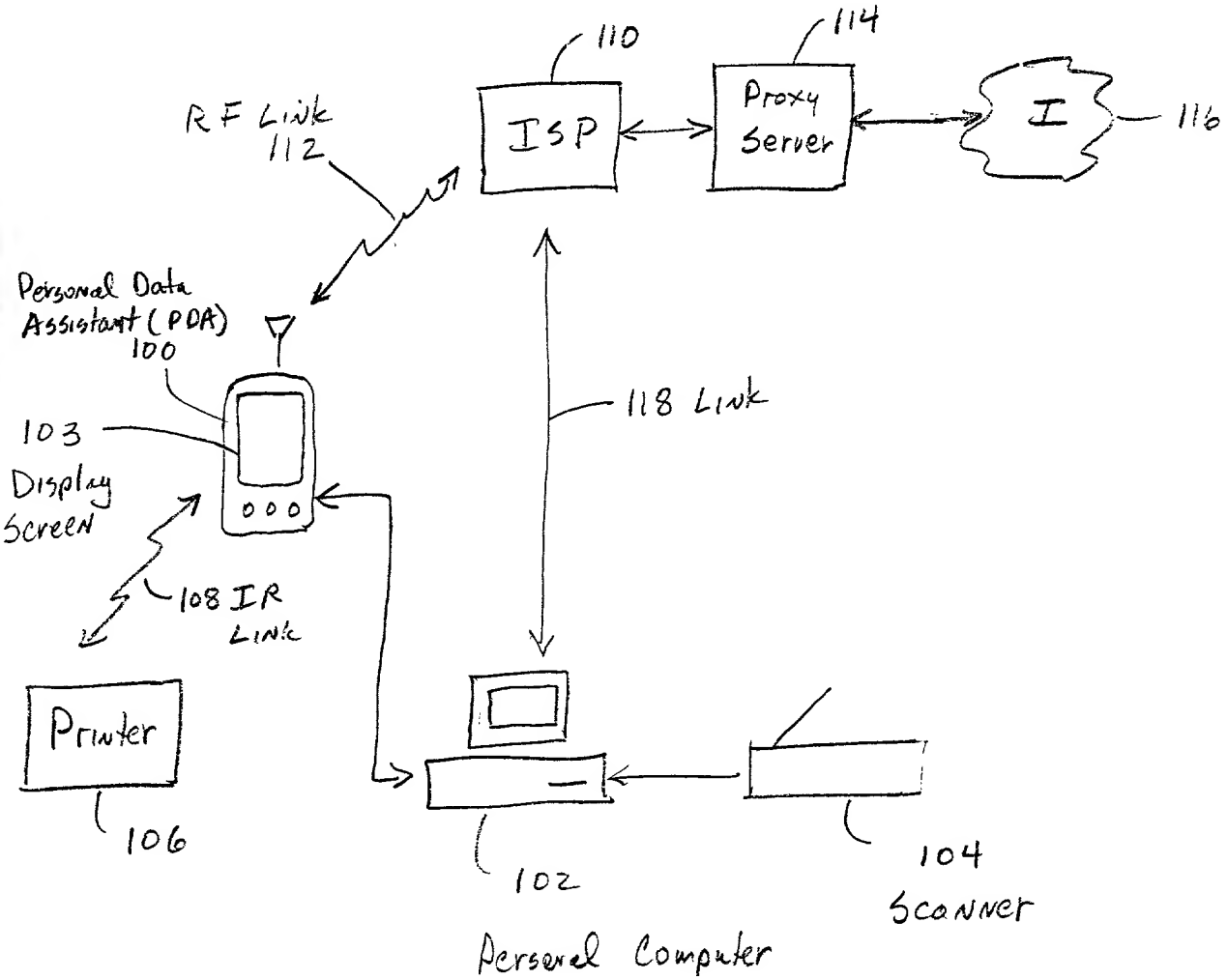

110
114
RF Link
112
ISP
Proxy
Server
I
116
Personal Data
Assistant (PDA)
100
103
Display
Screen
118 Link
108 IR
Link
Printer
106
102
Personal Computer
104
Scanner

Fig. 1a

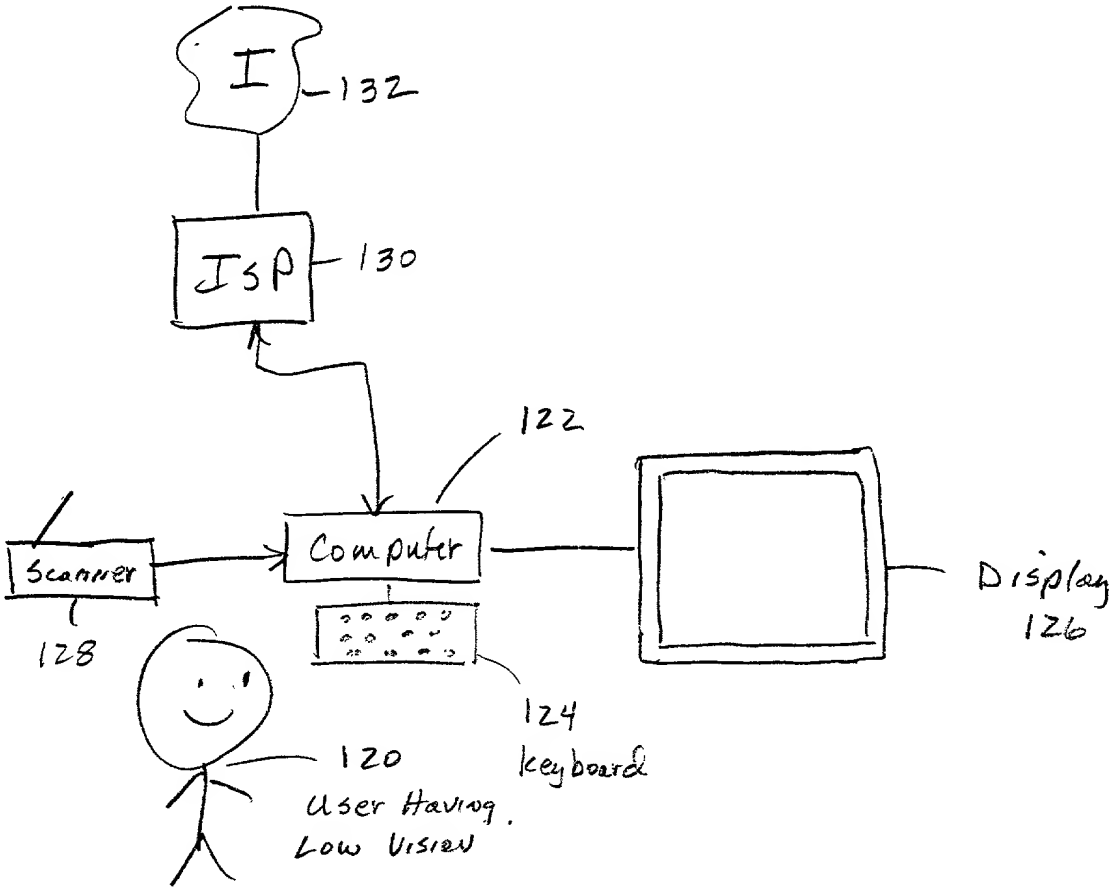

I
132
ISP
130
122
Computer
Scanner
128
Display
126
124
keyboard
120
User Having
Low Vision

Fig. 1b

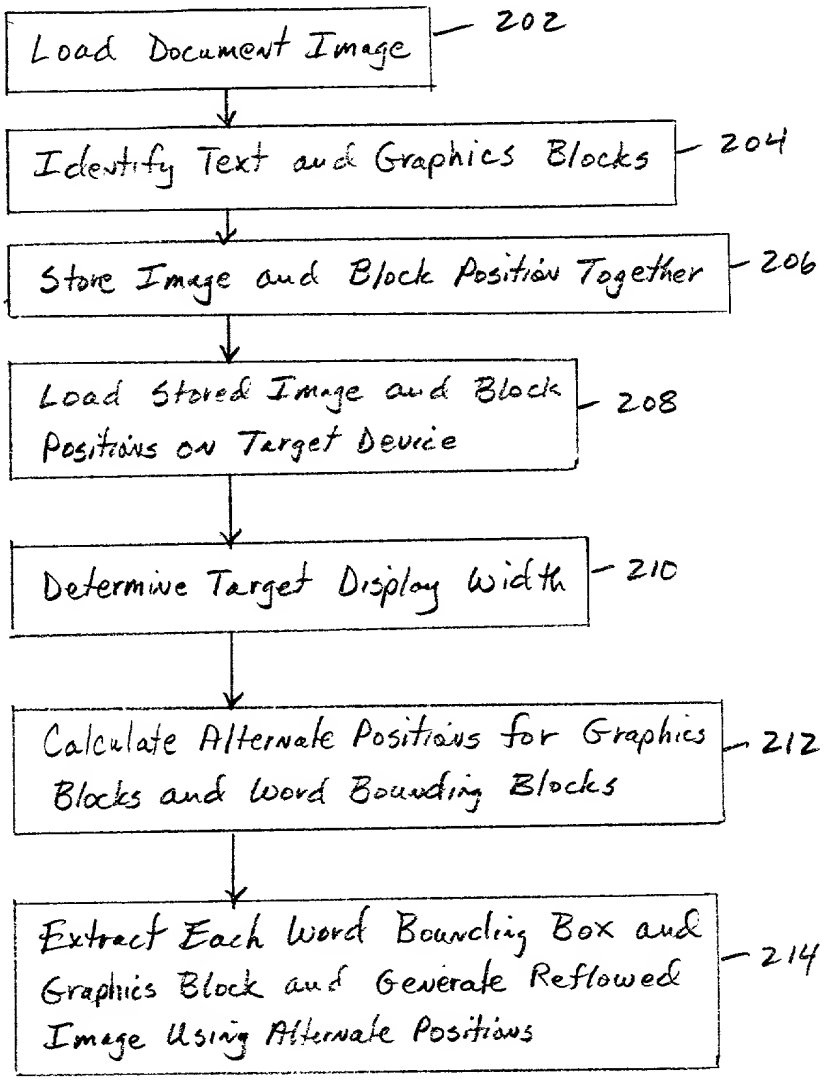
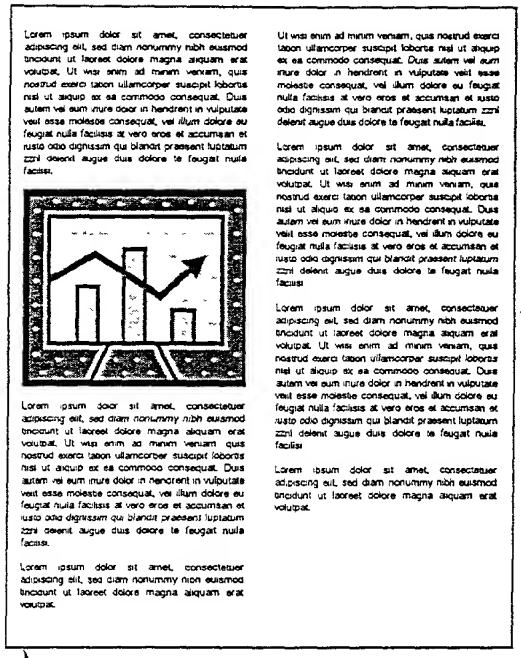

Load Document Image
202
Identify Text and Graphics Blocks
204
Store Image and Block Position Together
206
Load Stored Image and Block Positions on Target Device
208
Determine Target Display Width
210
Calculate Alternate Positions for Graphics Blocks and Word Bounding Blocks
212
Extract Each Word Bounding Box and Graphics Block and Generate Reflowed Image Using Alternate Positions
214
200
Overview of Reflowing Process

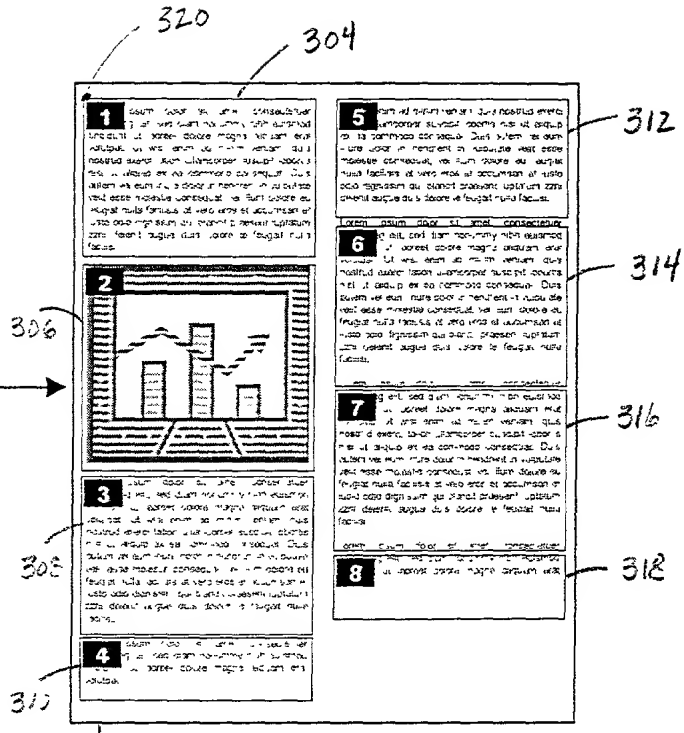
Fig. 2

Fig. 3a

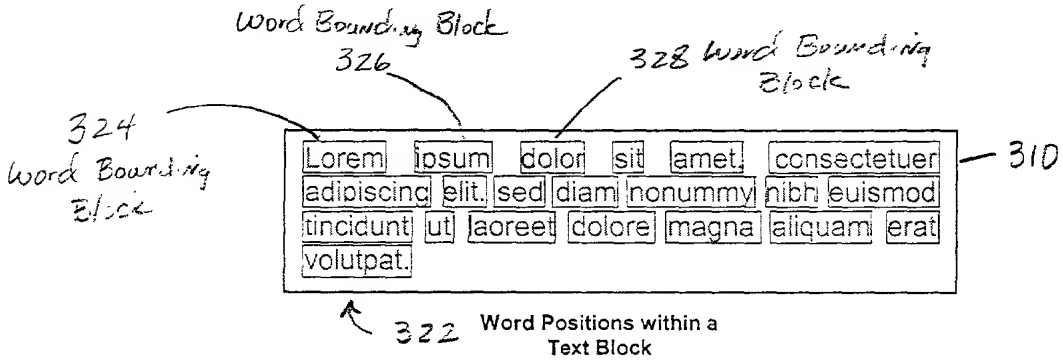


300 Original Document Image

Fig. 3b



302 Decomposed Image Showing Text/Graphic Block Positions/Ordering



322 Word Positions within a Text Block

Figure 3c

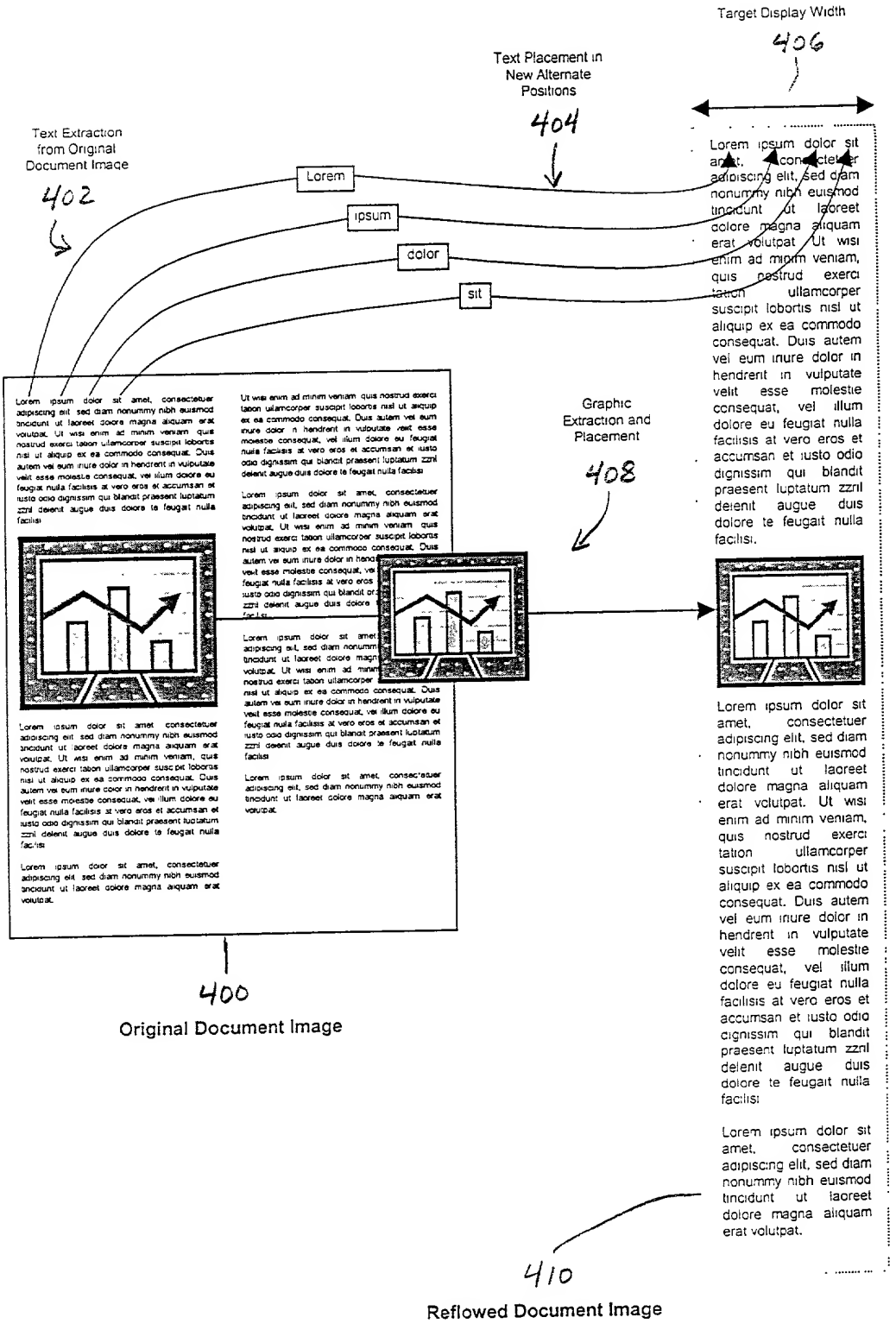

Target Display Width
406
Text Placement in New Alternate Positions
404
Text Extraction from Original Document Image
402
Lorem
ipsum
dolor
sit
Graphic Extraction and Placement
408
400
Original Document Image
410
Reflowed Document Image

Figure 4

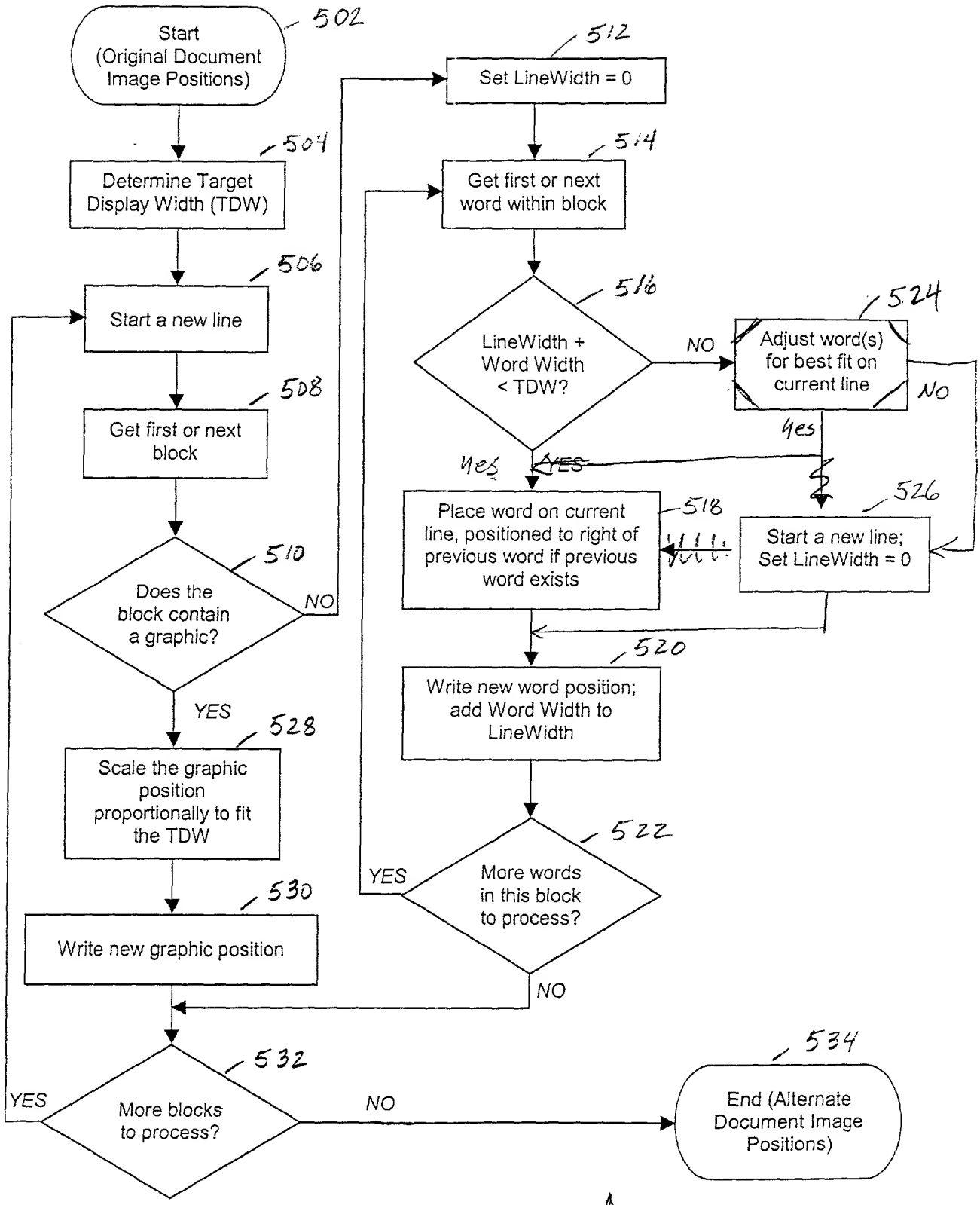


Figure 5

500 Details of Reflowing Process

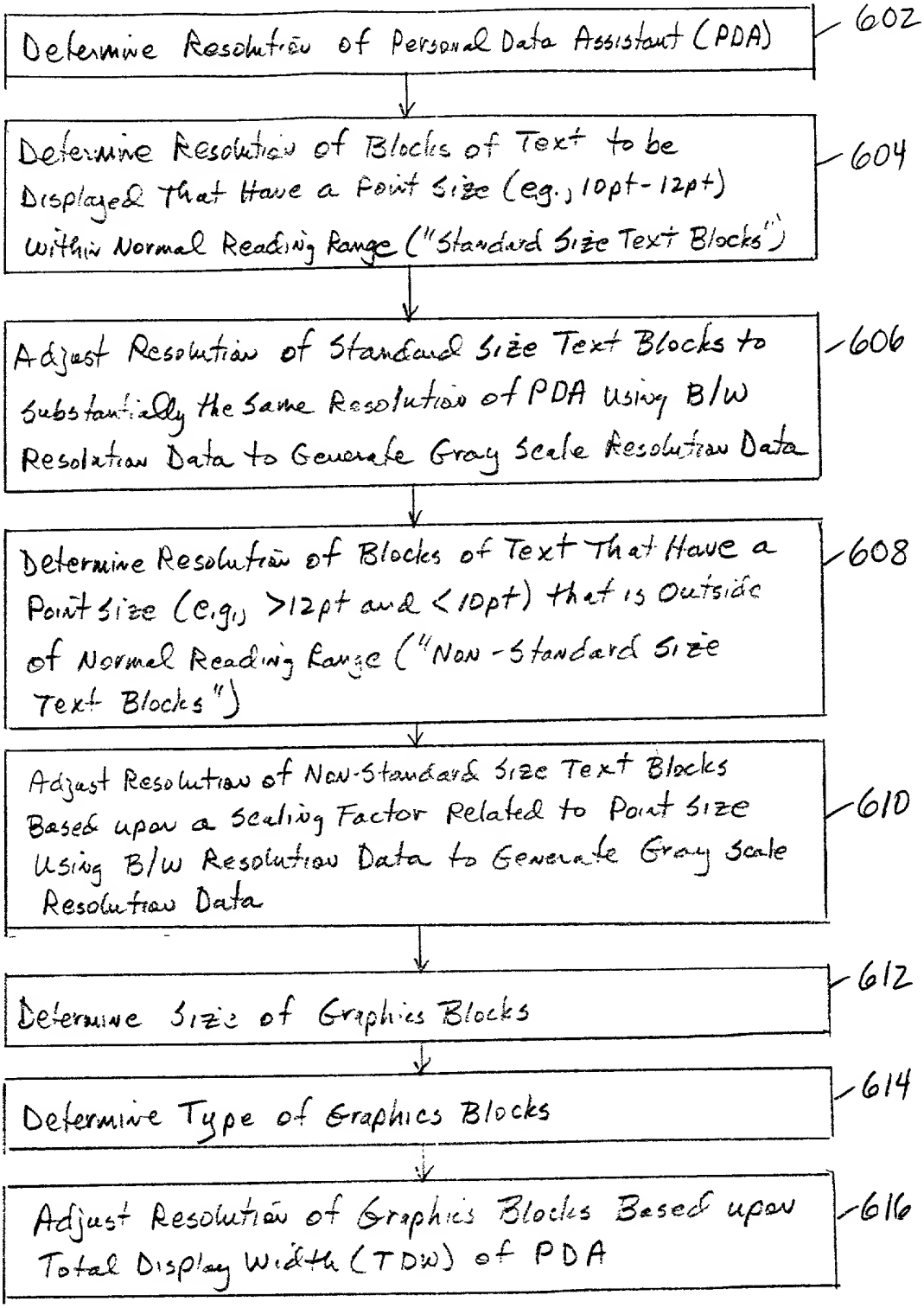


Fig. 6

600 Scaling of Text and Graphics